

Amendment to the Claims

Claims 1-17 CANCELED

18. (Withdrawn) A method for detecting a human neuronal ICAM-4 polypeptide in a sample, said human neuronal ICAM-4 polypeptide comprising the amino acid sequence set out in SEQ ID NO: 28, said method comprising the steps of

a) contacting the sample with a human neuronal ICAM-4 specific antibody, and
b) detecting an antigen comprising an epitope specifically recognized by an anti-human neuronal ICAM-4 antibody.

19. (Withdrawn) The method of claim 33 wherein the antibody is a monoclonal antibody.

20. (Withdrawn) The method according to claim 33 wherein the anti-ICAM-4 monoclonal antibody is selected from the group consisting of the monoclonal antibody secreted by hybridoma 173E, the monoclonal antibody secreted by hybridoma 179I and the monoclonal antibody secreted by hybridoma 179H.

21. (Withdrawn) The method of any one of claims 33-35 wherein the sample comprises a body fluid.

22. (Withdrawn) The method of claim 36 wherein the body fluid is selected from the group consisting of serum and cerebrospinal fluid.

23. (Original) Hybridoma 179I (American Type Culture Collection Accession No. HB12123).

24. (Original) The monoclonal antibody secreted by hybridoma 179I.

25. (Original) Hybridoma 179H (American Type Culture Collection Accession No. HB12124).

26. (Original) The monoclonal antibody secreted by hybridoma 179H.

27. (Currently Amended) A monoclonal antibody that is specifically binds immunoreactive with human ICAM-4 or a fragment of human ICAM-4 polypeptide,

wherein human ICAM-4 is encoded by a polynucleotide selected from

the group consisting of:

a) SEQ ID NO: 27;

b) a polynucleotide that encodes the polypeptide of SEQ ID NO: 28;

and

c) a polynucleotide that hybridizes to the complement of the polynucleotide of (a) or (b), under conditions that include a final wash in 1X SSC/0.1% SDS at 65° C.